

# REPORT ON BOILERS.

No. 1831

REC'D NEW YORK

Nov 12 1917

Received at London Office FRI NOV 30 1917.

of writing Report Nov 7<sup>th</sup> 1917 When handed in at Local Office Nov 7<sup>th</sup> 1917 Port of Newport News Va  
 in Survey held at Newport News Va Date, First Survey Sep 14, 1916 Last Survey Oct 12 1917  
 g. Book. STEEL T.S.S. "O. B. JENNINGS" (Number of Visits 6) Gross 10289  
 on the STEEL T.S.S. "O. B. JENNINGS" Tons Net 7890  
 ster R. A. Smith Built at Newport News By whom built Newport News S.B. & C. When built 1917-10  
 ines made at Newport News By whom made Newport News S.B. & C. when made 1917-10  
 lers made at do By whom made Newport News S.B. & C. when made 1917-10  
 istered Horse Power 628 Owners Standard Oil Co of N.Y. Port belonging to Bayonne N.J.

**MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.** Manufacturers of Steel Luttrell & S. Co  
 etter for record S. Total Heating Surface of Boilers 1223 Is forced draft fitted no No. and Description of  
 llers One S. E. Satch Working Pressure 180 Tested by hydraulic pressure to 270 Date of test 28.10.17  
 of Certificate 167 Can each boiler be worked separately yes Area of fire grate in each boiler 394 No. and Description of  
 ety valves to each boiler Two: - 2 1/2" Area of each valve 4.90" Pressure to which they are adjusted 180  
 e they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no  
 allest distance between boilers or uptakes and bunkers or woodwork 8' 0" Mean dia. of boilers 10' 11" Length 10' 10 1/2"  
 aterial of shell plates S. Thickness 3/4" Range of tensile strength 28.37 Are the shell plates welded or flanged no  
 escrip. of riveting: cir. seams S.W.L. long. seams S.W.L. Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 6 3/8"  
 p of plates or width of butt straps 17 3/4" Per centages of strength of longitudinal joint rivets 103 Working pressure of shell by  
 es 184 Size of manhole in shell 16 x 12 Size of compensating ring 38 x 34 No. and Description of Furnaces in each  
 iler 2, Morison Material S. Outside diameter 43 1/16" Length of plain part top ✓ Thickness of plates crown 17 1/2"  
 escription of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 189 Combustion chamber  
 ates: Material S. Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 7/8" Pitch of stays to ditto: Sides 7 1/2 x 7 1/2" Back 7 1/2 x 7 1/2"  
 p 7 x 7 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 208 Material of stays S. Diameter at  
 allest part 1 1/2" Area supported by each stay 56 Working pressure by rules 210 End plates in steam space: Material S. Thickness 3/4"  
 tch of stays 14 x 14 How are stays secured S.W.L. Working pressure by rules 188 Material of stays S. Diameter at smallest part 2 1/2"  
 rea supported by each stay 196 Working pressure by rules 211 Material of Front plates at bottom S. Thickness 3/4" Material of  
 ver back plate S. Thickness 3/4" Greatest pitch of stays 7 1/2 x 7 1/2" Working pressure of plate by rules 216 Diameter of tubes 2 3/4"  
 tch of tubes 4 x 3 3/4" Material of tube plates S. Thickness: Front 3/4" Back 3/4" Mean pitch of stays 9 3/4" Pitch across wide  
 ter spaces 12 3/4" Working pressures by rules 212 Girders to Chamber tops: Material S. Depth and thickness of  
 der at centre Two 9 x 3 1/4" Length as per rule 33 Distance apart 7 Number and pitch of Stays in each Three 7 1/2"  
 orking pressure by rules 214 Superheater or Steam chest; how connected to boiler ✓ Can the superheater be shut off and the boiler worked  
 arately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet  
 es Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness  
 stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed  
 orking pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

**VERTICAL DONKEY BOILER—** No. Description Manufacturers of steel  
 ade at By whom made When made Where fixed Working pressure  
 sted by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves  
 o. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can  
 ter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile  
 length Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets  
 up of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates  
 adius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace  
 ickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown  
 ates Radius of do. Stayed by Diameter of uptake Thickness of uptake plates  
 ickness of water tubes

Newport The foregoing is a correct description,

F. R. Ralston Manufacturer.  
By Vice President.

Dates { During progress of work in shops - - } Sep. 14, 26, 29 Oct- 23 - 28 1916  
 { During erection on board vessel - - } October 12<sup>th</sup> 1917  
 while building { Total No. of visits } 6

Is the approved plan of main boiler forwarded herewith yes  
 " " " donkey " " yes



# GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c.)

The donkey boiler has been built under survey in accordance with the approved plans. The workmanship and materials all good and render the vessel eligible in my opinion to have the record I.D. 180 lbs. in Register Book —

Certificate (if required) to be sent to  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

|                                |   |   |   |                   |
|--------------------------------|---|---|---|-------------------|
| The amount of Entry Fee...     | £ | : | : | When applied for, |
| Special ... ..                 | £ | : | : | 19                |
| Donkey Boiler Fee ...          | £ | : | : | When received,    |
| Travelling Expenses (if any) £ | ✓ | : | : | 19                |

*John H. Marshall*  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

New York NOV 13 1917

Assigned

See other report



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Foundation